

FIG.2

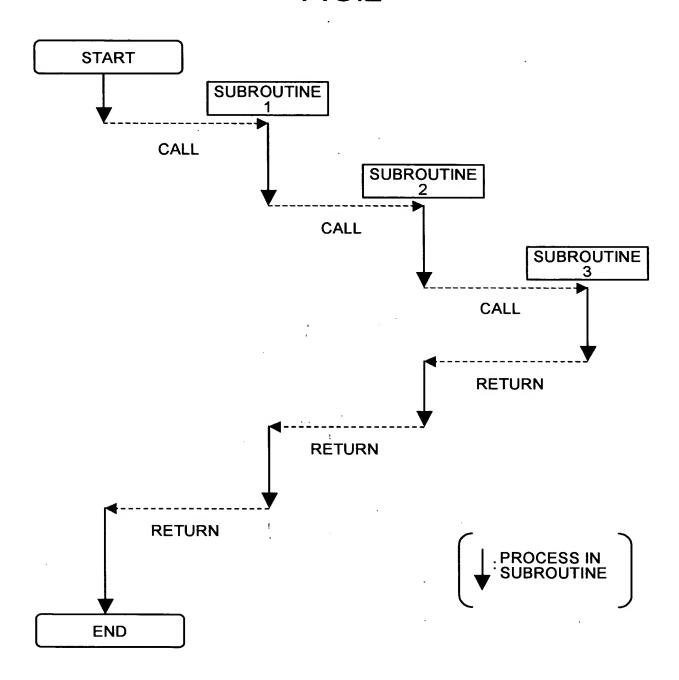


FIG.3

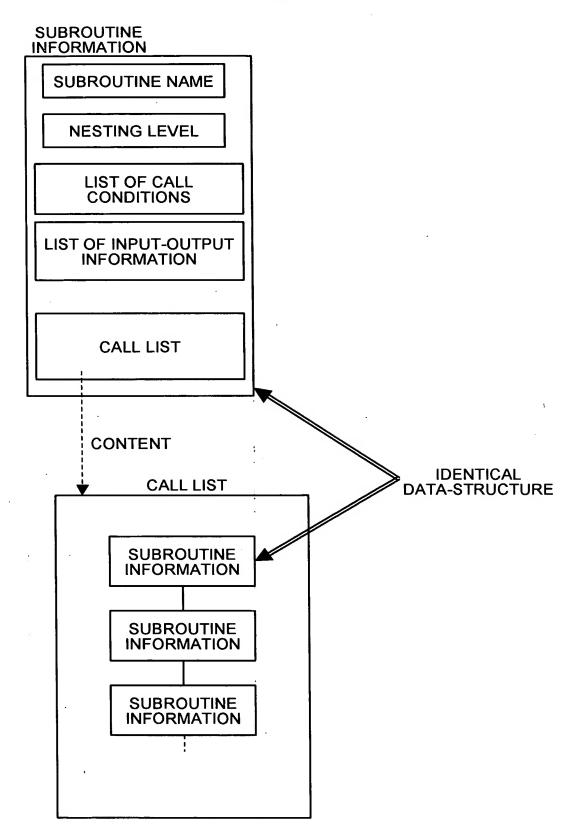


FIG.4

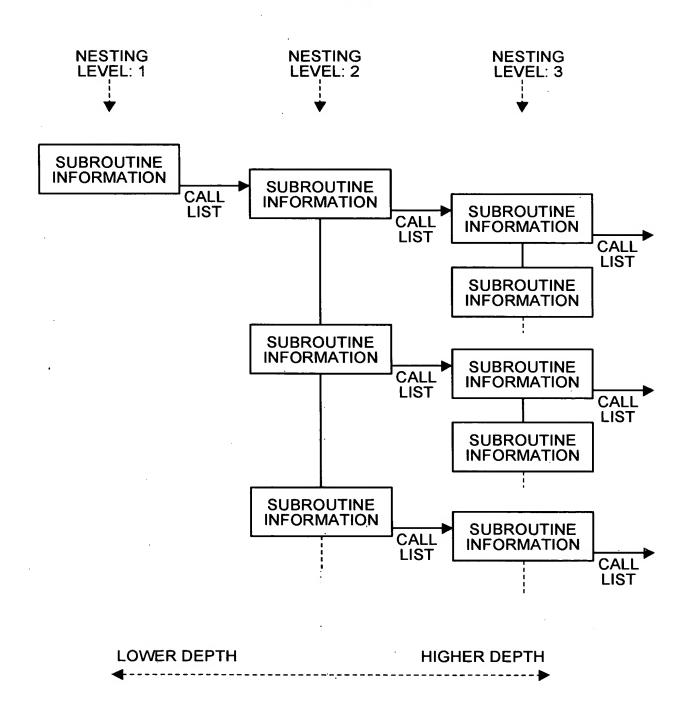


FIG.5

LIST OF CALL CONDITIONS

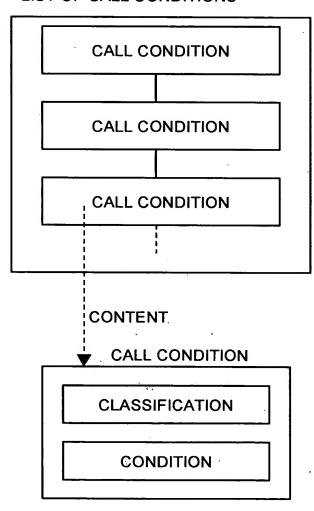
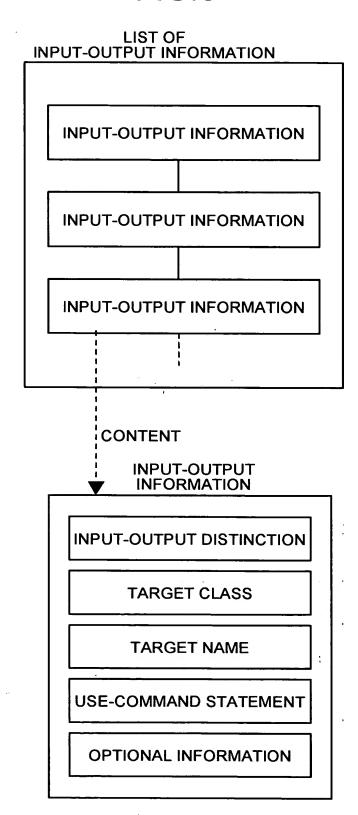
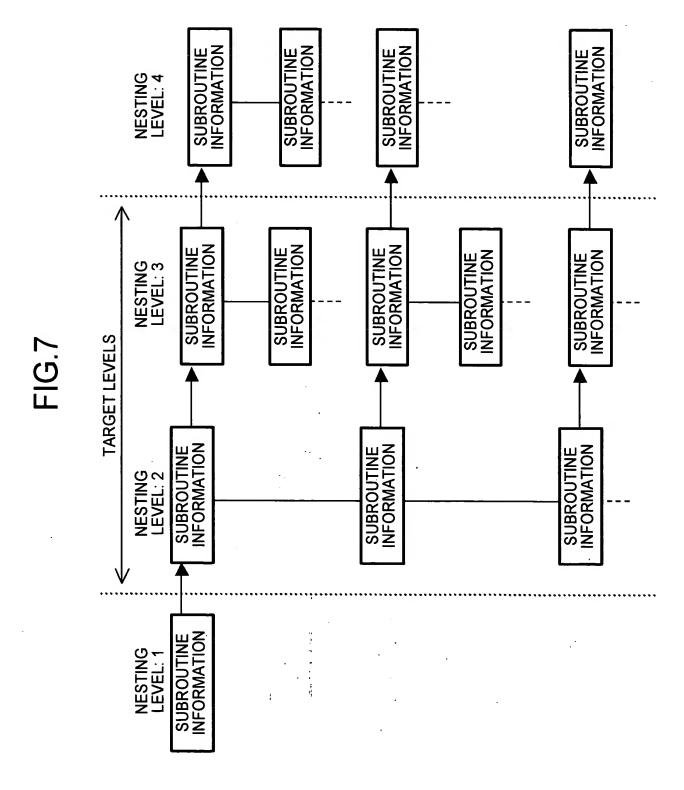
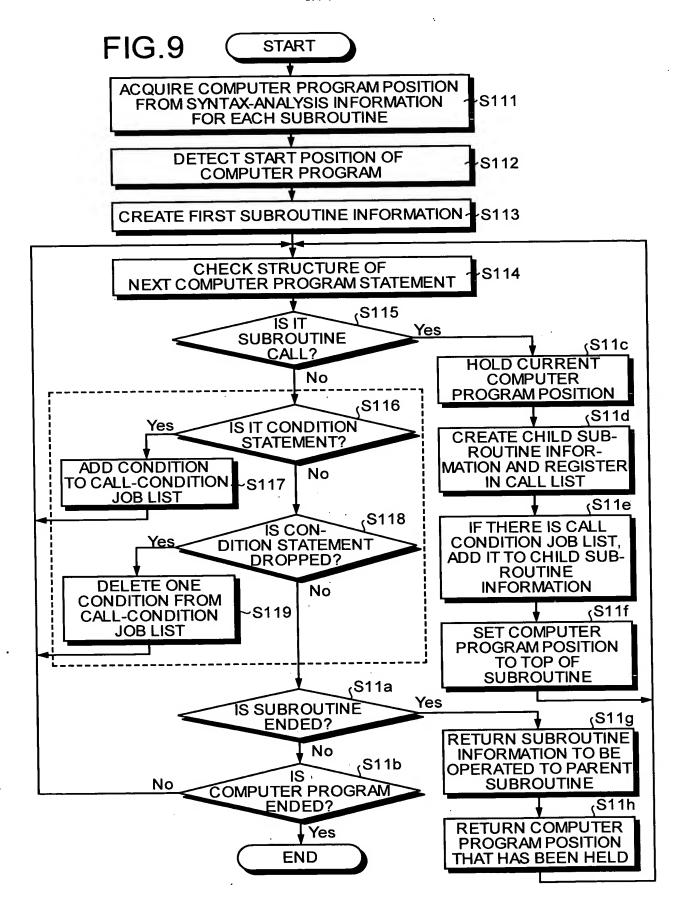


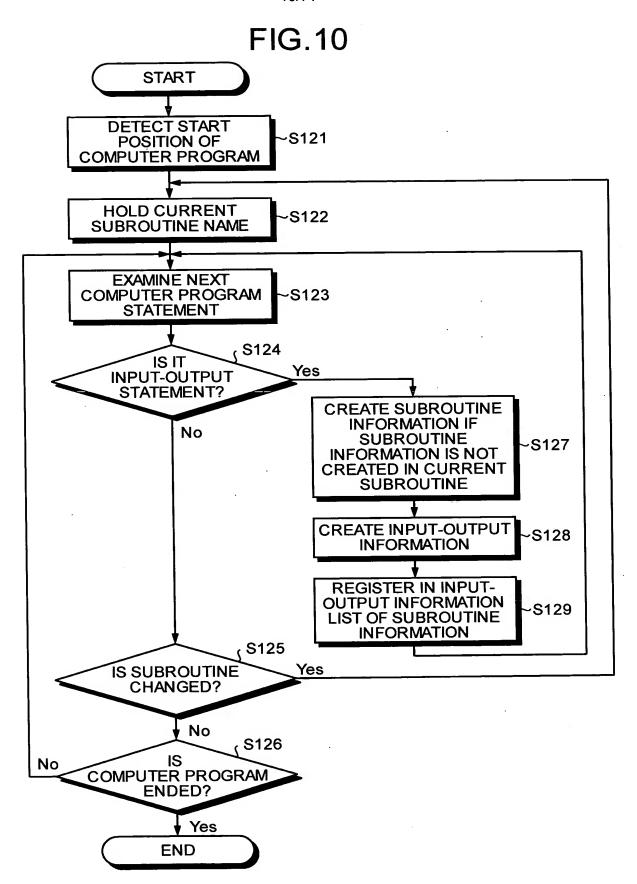
FIG.6

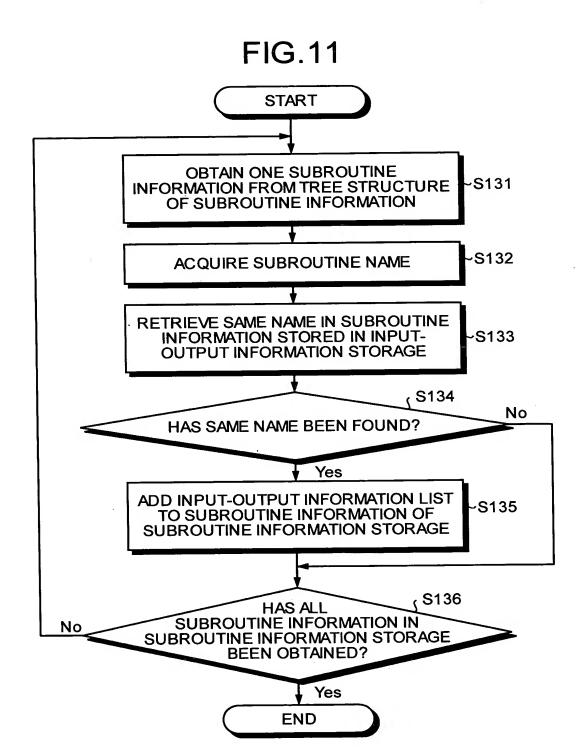


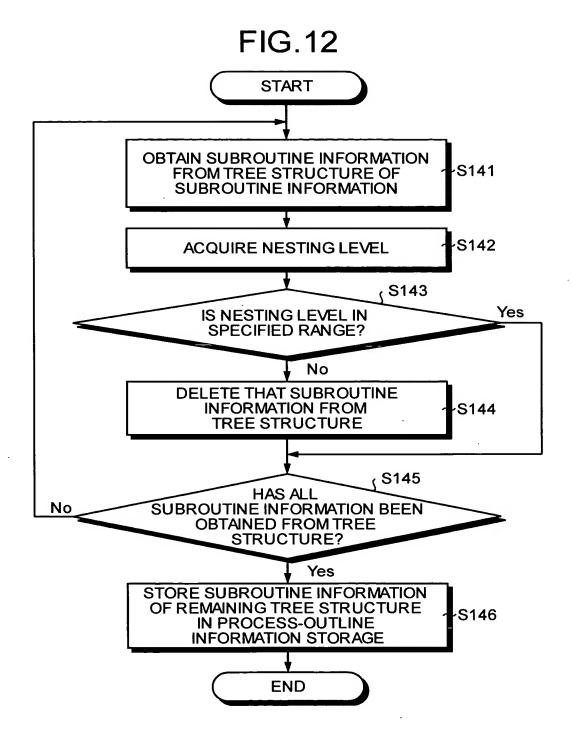


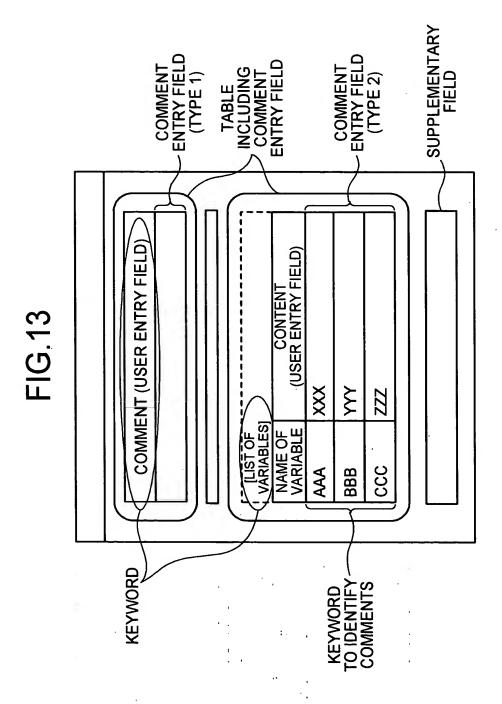
COMPUTER PROGRAM NAME	TJCCP050	FILE I	NAME	TJCCP050.	scob
[COLUMN FOR C	OMMENTS]				
ENTER BUSINESS CONTENTS ETC.					
10					
[INPUT-OUTPI RELATIONAL DIAC					
IN01 IN01					
	_				
TJCCP050					
OTO1					
OT01 OT01					
[COMMON AREA]					
No. RECORD	NAME			DETAILS	
2 SQLMSG					
[FILE INFORMATION]					
No. FILE NAME	EXTERNAL	CLASS	ORGANI-	LIBRARY NAME	DETAILS
1 IN01	UNIT NAME		ZATION ROW ORD	R TJCCF031.cbl	
2 OT01	ÖT01 C	OBOL FILE	ROWORD	R TJCCF051.cbi	
[INPUT-OUTPUT AND SECTION NAME]					
[ÎNPUT]					
TJSC. REQUEST FILE, TJSC. MOVE-IN FILE, TJSC. UNIT MASTER, TJSC. RENT CLASSIFICATION MASTER, TJSC. SETTLED VALUE FIXING FILE, TJSC. NAME FILE, TJSC.					
CODE MASTER, SC_B101001. MB101012, SC_B101001. MB101014, INO1					
IIPROCESSI .					
PARAMETERS-CHECKING PROCESS, READING PROCESS, DETAIL PROCESS (DATA- CHECKING PROCESS, SETTLED VALUE (FIXING) F READING PROCESS, NAME F					
READING PROCESS, AND EDITING PROCESS)					
IIOUTPUTI					
TJCCF051					
[PROCESS STRUCTURE DIAGRAM] (DISPLAY FROM SECOND LAYER TO THIRD LAYER OF SECTION)					
←CALLED BY	SEC	CTION CALL			LED FROM →
PARAMETERS-0	CHECKING PROC				
SALES PROCES DETAILED PROC	<u>S</u> 1588			ECKING PROCESS	
DE IAILLE FROM	<u> </u>		DATA-ON	LONING I NOOLOO	

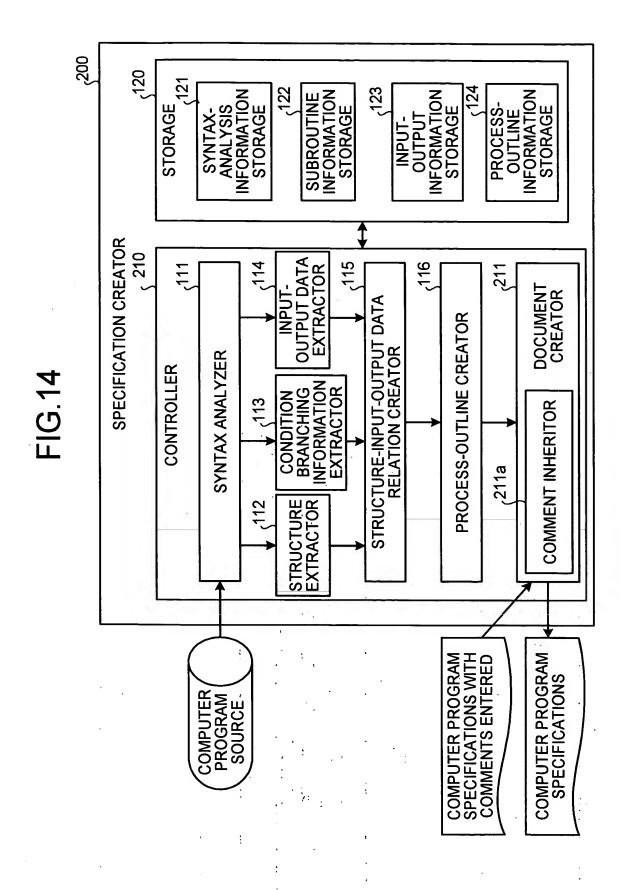












Reflection List (FIXED PROPERTY NAME)

Reflection1, Reflection2, ... ReflectionN

FIG.16A

Reflection1

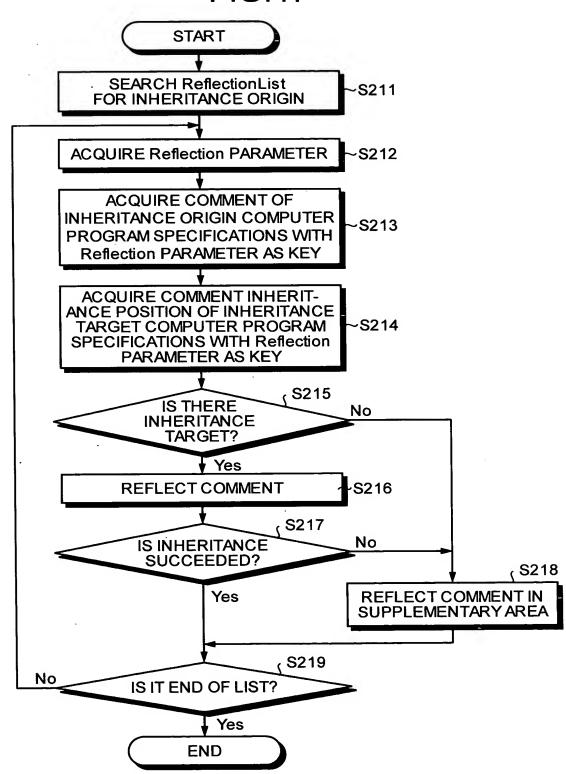
KEY WORD

FIG.16B

MultiReflection1

KEYWORD, COMMENTS IDENTIFICATION KEYWORD COLUMN POSITION, COMMENT ENTRY FIELD COLUMN POSITION

FIG.17



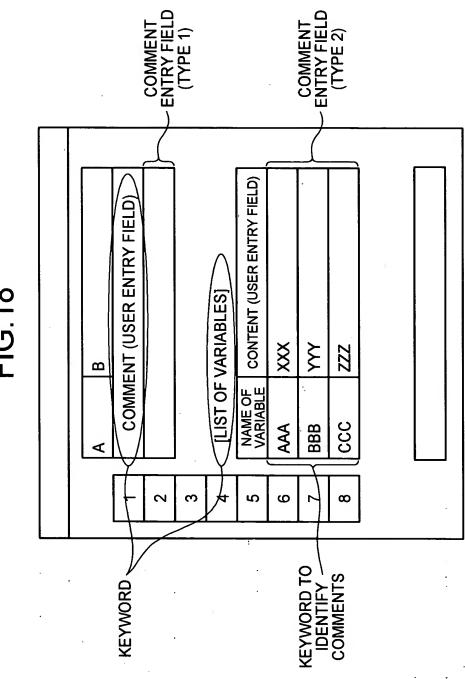


FIG.18

Reflection1

KEYWORD, COMMENT ENTRY FIELD ROW POSITION, COMMENT ENTRY FIELD COLUMN POSITION

FIG.20

MultiReflection1

KEYWORD, COMMENT ENTRY FIELD ROW POSITION, - NUMBER OF COMMENT ROWS COMMENT IDENTIFYING, KEYWORDS COLUMN POSITION, COMMENT ENTRY FIELD COLUMN POSITION

NAME	SECTION (FIRST NESTING LEVEL)	SECTION (SECOND NESTING LEVEL)		FILE	NOTE
COMPUTER PROGRAM		COMMENT (2)			
2	INITIAL PROCESS				
COMMENT (1)					
	EXECUTION CONDITION				
	UNTIL (END FLAG = CONSTANT-END)				
))	COMMENT (3)				
	REPEATED PROCESS		in1(rec1)	out1 (rec1)	
***************************************				out2(rec2)	
				out3(rec3)	
				out4(rec4)	
			COMMENT (5)	out5(rec5)	

***************************************		COMMENT (4)			
	REPEATED PROCESS			COMMENT (6)	
		GOTO <loop></loop>			
		<finish></finish>			
		COMMENT (7)			
	END PROCESS				
					COMMENT (8)

NEORMATION NAME→	SECTION STRUCTURE (STRUCTURE CONSIDERIGN NUMBER OF APPEARANCES)	DISPLACEMENT (FROM CORRESPONDING SECTION)	NAME OF ADDED COLUMN (IN A CASE OF COLUMN NOT IN STRUCTURE)
COMMENT (1)	COMPUTER PROGRAM NAME	2 ROWS, 0 COLUMNS	
COMMENT (2)	COMPUTER PROGRAM NAME	0 ROWS, 2 COLUMNS	
COMMENT (3)	COMPUTER PROGRAM NAME LINITIAL PROCESS[1]	4 ROWS, 0 COLUMNS	
COMMENT (4)	COMPUTER PROGRAM NAME LREPEATED PROCESS [1] LCALL "COM0002" [1]	1 ROWS, 0 COLUMNS	
COMMENT (5)	COMPUTER PROGRAM NAME LREPEATED PROCESS [1]		FILE TO BE READ
COMMENT (6)	COMPUTER PROGRAM NAME -REPEATED PROCESS [2]	2 ROWS, 0 COLUMNS	FILE TO BE WRITTEN
COMMENT (7)	COMPUTER PROGRAM NAME LREPEATED PROCESS [2] L <finish> [1]</finish>		
COMMENT (8)	COMPUTER PROGRAM NAME LEND PROCESS [1]		NOTE

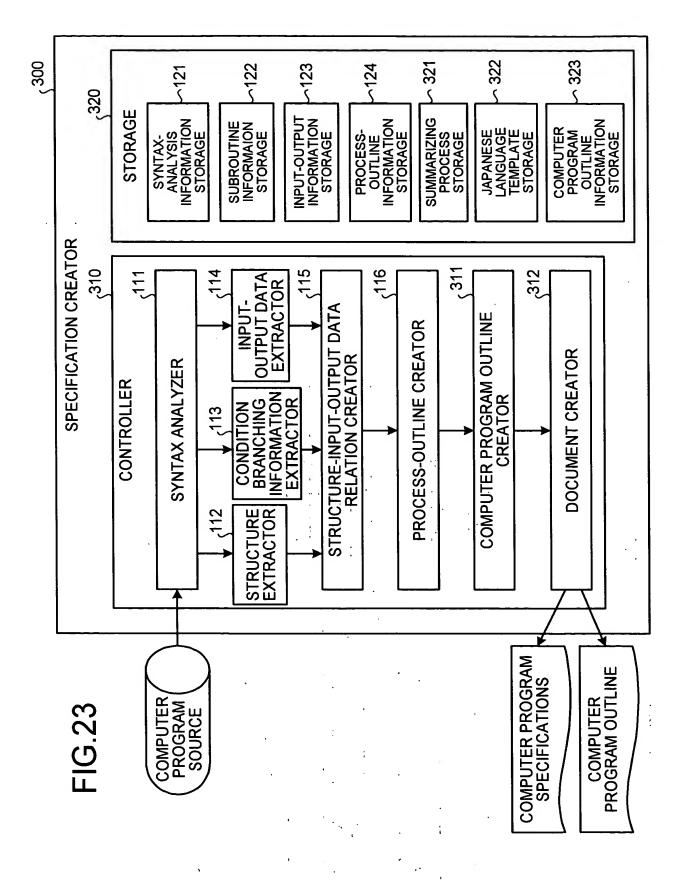


FIG.24

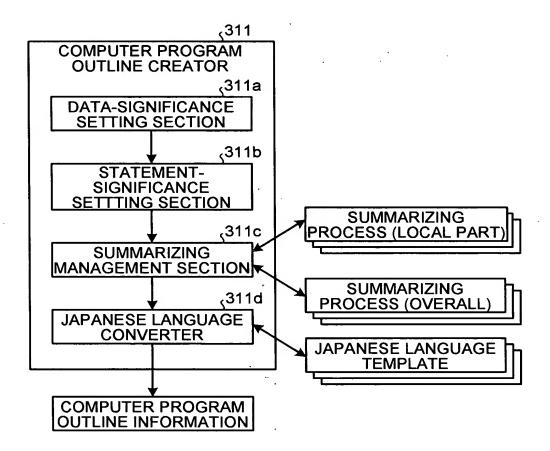


FIG.25A

MAIN SECTION. MAIN-START.

MOVE 0 TO W-ERR-FLAG.

IF IN-CODE NOT = 103

GO TO NEXT-DATA-READ

END-IF.

PERFORM MASTER-MODIFY-SECT.

IF W-ERR-FLAG NOT = 0

GO TO MAIN-END

END-IF.

NEXT-DATA-READ.
PERFORM FILE-READ-SECT.

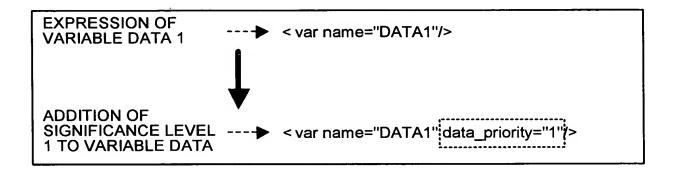
MAIN-END. EXIT.

FIG.25B

```
< section name="MAIN">
   <paragraph name="MAIN-START">
      <sequences num="4">
       <move>
          <ref><constant value="0" type="int"/></ref>
<def><var name="W-ERR-FLAG"/></def>
       </move>
       <if>
            <condition><expression>
             <var name="IN - CODE"/>
              <comparison_operator name="NOT ="/>
  <constant value="103" type="int"/>
             </expression></condition>
          <then>
             <sequences num="1">
               <goto>
                    <target type="paragraph"
name="NEXT-DATA-READ"
                             section_name="MAIN"/>
               </goto>
             </sequences>
            </then>
        </if>
         <perform_external>
            <target type="section" name="MASTER -MODIFY-SECT"/>
         </perform external>
        <if>
            <condition><expression>
<var name="W-ERR-FLAG"/>
               <comparison_operator name="NOT ="/>
             <figurative constant name="ZERO"/>
</expression></condition>
          <then>
             <sequences num="1">
               <goto>
                    <target type="paragraph"
name="MAIN-END"
                             section_name="MAIN"/>
               </goto>
             </sequences>
          </then>
        </if>
     </sequences>
   </paragraph>
  <paragraph name="NEXT-DATA-READ">
     <sequences num="1">
         <perform external>
              <target type="section" name="FILE-READ-SECT"/>
         </pre
     </sequences>
   </paragraph>
   <paragraph name="MAIN-END">
     <sequences num="1">
         <exit_sentence/>
     </sequences>
   </paragraph>
 </section>
```

FIG. 26

SIGNIFICANCE LEVEL - HIGH		SIGNIFICANCE CLASSIFICATION LEVEL ID	DESCRIPTION
	ļ	D-1	DATA RELATED TO BRANCHING CONDITION OF PROCESS PATH
	2	D-2	DATA TO BE USED FOR OUTPUT OF FILE, DATABASE ETC.
	8	D-3	DATA TO BE USED FOR INPUT FROM FILE, DATABASE ETC.
SIGNIFICANCE	4	D-4	OTHER DATA



SIGNIFICANCE LEVEL - HIGH	SIGNIFICANCE LEVEL	CLASSIFICATION DESCRIPTION ID	DESCRIPTION
•	_	S-1	FOLLOWING STATEMENTS THAT PERFORM FOLLOWING OPERATIONS FOR DATA THAT CORRESPONDS TO SIGNIFICANCE LEVEL D-1 AND D-2. STATEMENT THAT REWRITES SUBSTITUTION ETC., STATEMENT THAT CALLS SUBROUTINE, AND STATEMENT THAT INPUTS AND OUTPUTS TO FILE, DATABASE
	2	S-2	CONDITION-JUDGMENT STATEMENT THAT INCLUDES STATEMENT CLASSIFIED AS S-1 AS STATEMENT TO BE EXECUTED IMMEDIATELY AFTER JUDGMENT.
•	က	8-3	OTHER STATEMENTS

```
< move
                                         <ref>
                                              <constant value="0" type="</pre>
                                                                              int "/>
                                         </ref>
    MOVE 0 TO DATA1.----▶
                                        <def>
                                          < var name="DATA1"
                                                                     data_priority
                                                                                     ="1"/>
                                         </def>
                                     </move>
                                     < mov
                                                 statement_priority
                                         <ref>
SINCE SIGNIFICANCE
                                              <constant value="0" type="</pre>
                                                                              int "/>
LEVEL 1 IS ASSIGNED TO
                                         </ref>
VARIABLE DATA 1 TO BE ___
SUBSTITUTED, ADD
SIGNIFICANCE LEVEL 1 OF
                                        <def>
                                          < var name="DATA1"</pre>
                                                                     data_priority
                                                                                     ="1"/>
STATEMENT
                                         </def>
                                     </move>
```

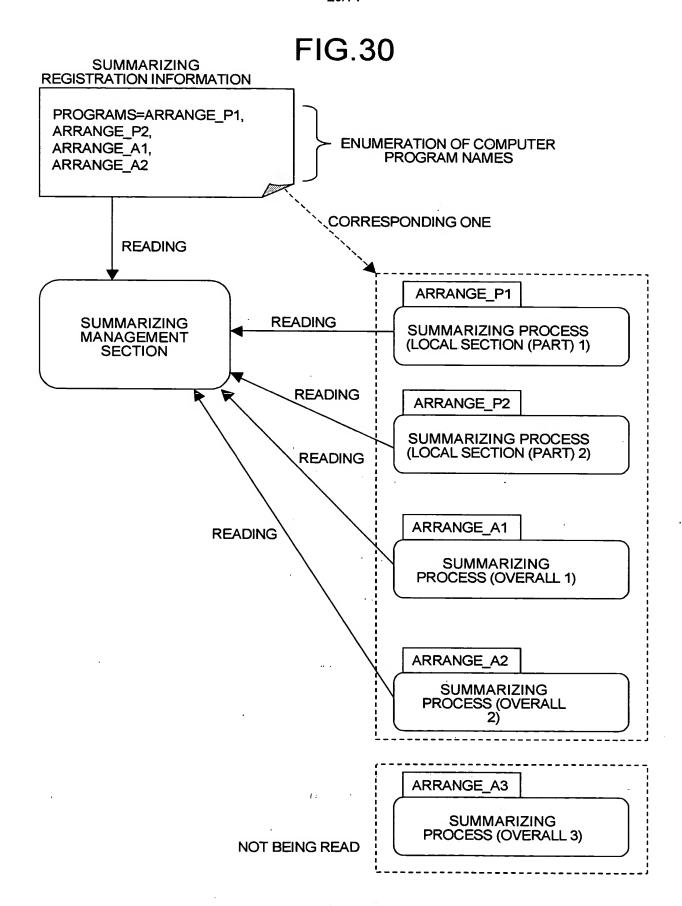


FIG.31

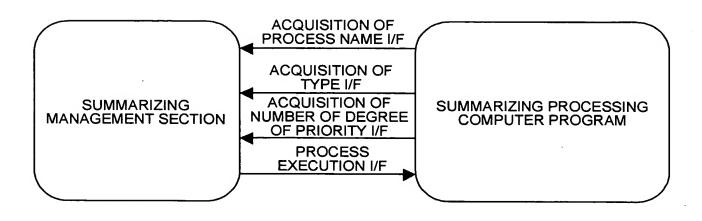


FIG.32

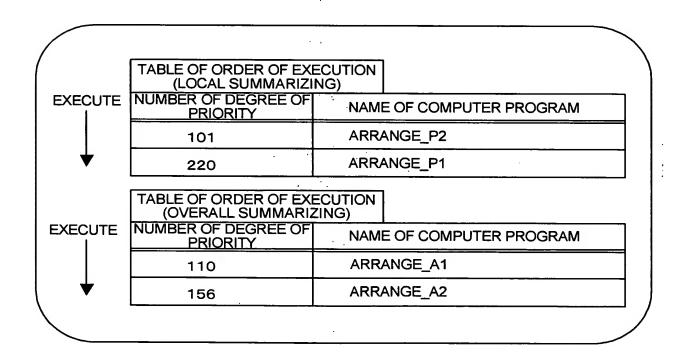


FIG.33A

NAME OF COMPUTER PROGRAM:AR P1

PROCESS NAME: SUMMARIZING OF READ-UNTIL

TYPE: LOCAL

NUMBER OF DEGREE OF PRIORITY: 100

DESCRIPTION:

IF A PROCESS AT THE END OF FILE OF "READ" STATEMENT MATCHES WITH SATISFYING OF "UNTIL" CONDITION, REPLACE CONDITION OF "UNTIL" BY 'TILL THE END OF FILE'. DELETE PROCESS UP TO FILE END OF "READ" STATEMENT.

EXAMPLE:

READ INF AT END MOVE "END" TO FLAG.

PERFORM ~ UNTIL FLAG = "END".

READ INF.

PERFORM ~ UNTIL AT_FILE_END INF.

TAG <at_file_end> IS INSERTED IN PROCESS.

FIG.33B

NAME OF COMPUTER PROGRAM:AR_P2	PROCESS NAME: DEVELOPMENT OF SECTION
TYPE: LOCAL NUMBER OF DEGR OF PRIORITY: 20	REE
DESCRIPTION:	
IF CONTENT OF SECTION IS SHORT CALLED WITHOUT ANY CONDITION RANK SECTION), DEVELOP CONTEN INCLUDED IN HIGHER RANK SECTION	IN ORIGIN OF CALLING (HIGHER IT OF SECTION SUCH THAT IT IS
EXAMPLE:	
~	•
PERFORM READ -SUB.	
~	
READ - SUB SECTION	N
READ INF	
EXIT.	· ·
+	
~	·
READ INF.	
~	·

FIG.33C

NAME OF COMPUTER PROGRAM:AR_P3

PROCESS NAME: GROUP ITEMIZATION OF SUBSTITUTION (SUBSTITUTE)

TYPE: LOCAL

NUMBER OF DEGREE OF PRIORITY: 300

DESCRIPTION:

IF MOVE STATEMENT CONTINUES, ALL ITEMS OF ORIGIN OF SUBSTITUTION BELONG TO SAME GROUP ITEM, AND ALL ITEMS OF TARGET OF SUBSTITUTION BELONG TO SAME GROUP ITEM, REPLACE THEM TO SUBSTITUTE STATEMENT BY NAMES OF GROUP ITEMS. IF NOT ALL ITEMS IN GROUP ITEMS ARE ENUMERATED, ADD ATTRIBUTE THAT INDICATES BEING A PART OF THAT GROUP ITEM.

EXAMPLE:

MOVE IN-DATA1 TO OUT-DATA1.

MOVE IN-DATA2 TO OUT-DATA1.

(IN-DATA1, IN-DATA2 BELONG TO INR,

OUTODATA1, OUT-DAT2 BELONG TO OUTR)

 \downarrow

MOVE INR TO OUTR.

FIG.33D

NAME OF COMPUTER PROGRAM:AR P4

PROCESS NAME: DELETION OF STATEMENTS WITH LOW SIGNIFICANCE LEVEL

TYPE: LOCAL

NUMBER OF DEGREE OF PRIORITY: 400

DESCRIPTION:

(1) DELETE STATEMENT FOR WHICH statement_priority IS 3. WHILE DELETING, REDUCE VALUE OF ATTRIBUTE Qt OF PARENT TAG <sequence> OF TAG OF STATEMENT THAT IS TO BE DELETED BY NUMBER OF STATEMENTS THAT ARE DELETED. (qt INDICATES NUMBER OF STATEMENTS INSIDE).

(2) WHILE DELETING, IF VALUE OF ATTRIBUTE at OF <sequence> IS 0, DELETE SECTION, PARAGRAPH INCLUDING THE VALUE OR CONDITION STATEMENT (CONDITION AFTER IF, EVALUATE, READ).

PERFORM (1) AND (2) REPEATEDLY TILL NUMBER OF STATEMENTS IN COMPUTER PROGRAM STOPS CHANGING.

FIG.33E

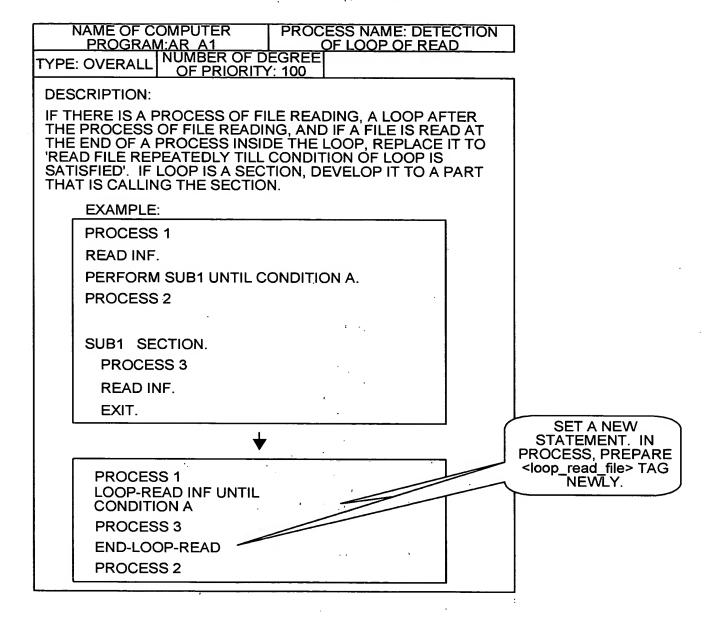


FIG.33F

NAME OF COMPUTER PROGRAM:AR A2

PROCESS NAME: ENTRY OF OVERALL NAME OF VARIABLE

TYPE: OVERALL

NUMBER OF DEGREE OF PRIORITY: 200

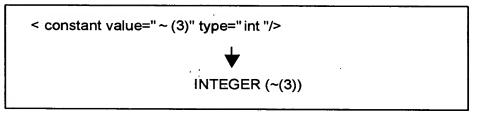
DESCRIPTION:

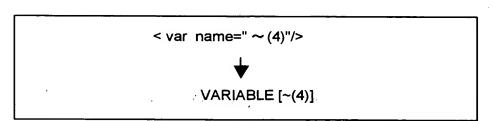
EXPRESS ITEM NAME OF A VARIABLE WITH GROUP ITEM NAME ADDED TO IT. LINK BY USING "." BETWEEN THE NAMES. EXPRESS FROM THE HIGHEST GROUP ITEM NAME.

FORMAT OF IN-RECORD.IN-DATA1 ETC.

" MOVE 0 TO DATA1."

TEMPLATE





JAPANESE LANGUAGE STATEMENT TO BE CREATED

SUBSTITUTE INTEGER (0) FOR VARIABLE [DATA1]

FIG.35A

```
<if><if><condition> ~ (1)</condition><br/><then><sequence> ~ (2)</sequence></then><br/><else><sequence> ~ (3)</sequence></else><br/></if>
IF CONDITION ~(1) IS SATISFIED, PERFORM FOLLOWING ~(2)
IF CONDITION ~(1) IS NOT SATISFIED, PERFORM FOLLOWING ~(3)
```

FIG.35B

< move><ref part="on">~(1)</ref><def> ~ (2)</def></move>

\$\blue{\psi}\$

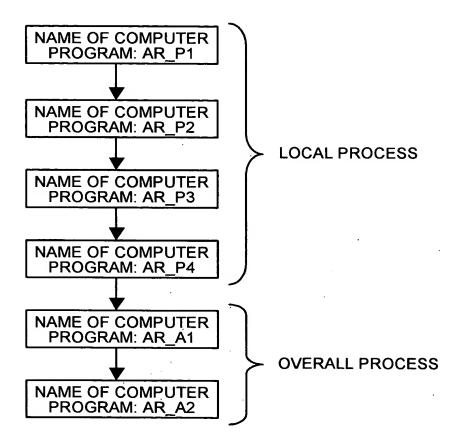
SUBSTITUTE A PART OF ~(1) FOR ~(2)

<expression>~(1)</expression> EXPRESSION ~(1)

```
IDENTIFICATION
                     DIVISION.
                                         PROGRAM-ID.
                     TESTSAMPLE.
                                         PROCEDURE DIVISION.
                     TARO.YAMADA.
AUTHOR.
                                            OPEN INPUT INFILE OUTPUT OUTFILE.
ENVIRONMENT
                     DIVISION.
                                          DISPLAY "## COMPUTER PROGRAM START UPON CONSOLE.
CONFIGURATION
                     SECTION.
SOURCE-COMPUTER.
                     VIRTUAL/HOST1.
                                          PERFORM READ-SECT.
OBJECT-COMPUTER.
                     VIRTUAL/HOST1.
                                          IF END-FLAG = "END"
DISPLAY "## NOT EVEN ONE CAN READ RECORD."
  ***************** IN OUT *******************
                                              UPON CONSOLE
INPUT-OUTPUT
                SECTION.
                                             DISPLAY "## ERROR ENDED." UPON CONSOLE
                                              STOP RUN
FILE-CONTROL.
                                           END-IF.
  SELECT INFILE
                ASSIGN TO INFILE.
  SELECT OUTFILE ASSIGN TO OUTFILE.
                                          PERFORM MAIN-SECT UNTIL END-FLAG = "END"
 DATA DIVISION.
                                           CLOSE INFILE
                                                        OUTFILE.
FILE SECTION.
                                           DISPLAY "NUMBER OF OUTPUTS =[" OUT-COUNT "]"
                                           UPON CONSOLE
                                           DISPLAY "ENDED NORMALLY." UPON CONSOLE.
 FD INFILE BLOCK ORECORDS.
01 IN-RECORD.
   03 MEMBERCODE
                                         PIC 9(5).
   03 JOB-CODE
                     PIC 9(3).
                                           READ INFILE
   03 NAME.
                                              AT END MOVE "END" TO END-FLAG
NOT AT END ADD 1 TO IN-COUNT
     05 NAMEFAMLY
                     PIC N(16).
                     PIC X(16).
     05 NAMEFIRST
   03 SEIBETSU
                     PIC 9.
                                           END-READ.
   03 YUUBINBANGO.
                                         READ-SECT-END
     05 YUBIGCODE
                     PIC 9(3).
                                           EXIT.
     05 YUSMALLCODE. PIC 9(4).
   03 TEL
                                            PIC X(14).
   03 BIRTHDAY.
                                         MAIN-SECT SECTION.
     05 BD-YEAR
                     PIC 9(4).
                                              IF FAMILYDATA = ZERO
     05 BD-MONTH
                     PIC 9(2).
                                                 ADD 1
                                                         TO SKIP-COUNT
     05 BD-DAY
                     PIC 9(2).
                                              FLSE
   03 FAMILYDATA.
                                                 ADD 1
                                                         TO
                                                               PROCCOUNT
     05 F-MEMBER
                     OCCURS 20.
                                                 PERFORM VARYING I FROM 1 BY 1
       07 F-TYPE
                     PIC 9(2).
                                                                  UNTIL 1 > 20
       07 F-MEMBER-F
                     PIC 9.
                                                   MOVE MEMBERCODE TO OUT-MEMBERCODE
       07 F-CODE
                     PIC 9(5)
                                                   MOVE F-TYPE(I)
                                                                     TO OUT-F-TYPE
                                           [3]
   03 FILLER
                     PIC X(25).
                                                   MOVE F-MEMBÉR-F(I) TO OUT-F-MEM-FLAG
                                                   MOVE F-CODE(I)
                                                                    TO OUT-F-CODE
 WRITE OUT-RECORD
 FD OUTFILE BLOCK O RECORDS.
                                                   ADD
                                                               TO OUT-COUNT
01 OUT-RECORD.
                                                 END-PERFORM
   03 OUT-MEMBERCODE PIC 9(5)
                                              END-IF.
   03 OUT-F-TYPE
                     PIC 9(2).
                     PIC 9
   03 OUT-MEM-FLAG
                                              PERFORM READ-SECT.
PIC 9(5).
                                         MAIN-SECT-END.
WORKING-STORAGE SECTION.
                                              FXIT.
01 COUNTER-TABLE.
                     PIC S9(9) VALUE ZERO.
PIC S9(9) VALUE ZERO.
   03 IN-COUNT
   03 SKIP-COUNT
   03 PROC-COUNT
                     PIC S9(9) VALUE ZERO.
   03 OUT-COUNT
                     PIC S9(9) VALUE ZERO.
 01 I
                     PIC S9(4).
01 END-FLAG
                     PIC X(03) VALUE SPACE
```

NAME OF COMPUTER	PROCESS NAME:	TYPE: LOCAL	NUMBER OF DEGREE
PROGRAM: AR_P1	SUMMARIZING OF READ-UNTIL		OF PRIORITY: 100
NAME OF COMPUTER	PROCESS NAME:	TYPE: LOCAL	NUMBER OF DEGREE
PROGRAM: AR_P2	DEVELOPMENT OF SECTION		OF PRIORITY: 200
NAME OF COMPUTER PROGRAM: AR_P3	PROCESS NAME: GROUP ITEMIZATION OF SUBSTITUTION	TYPE: LOCAL	NUMBER OF DEGREE OF PRIORITY: 300
NAME OF COMPUTER PROGRAM: AR_P4	PROCESS NAME: DELETION OF STATEMENTS WITH LOW SIGNIFICANCE LEVEL	TYPE: LOCAL	NUMBER OF DEGREE OF PRIORITY: 400
NAME OF COMPUTER	PROCESS NAME: DETECTION	TYPE:	NUMBER OF DEGREE
PROGRAM: AR_A1	OF LOOP OF READ	OVERALL	OF PRIORITY: 100
NAME OF COMPUTER	PROCESS NAME: ENTRY OF	TYPE:	NUMBER OF DEGREE
PROGRAM: AR_A2	OVERALL NAME OF VARIABLE	OVERALL	OF PRIORITY: 200

FIG.38



```
< loop_read_file statement_priority ="1">
    <file name="INFILE">
     <record>< var name="IN- RECORD", data_priority ="3"/></record>
   </file>
   <until>< at_end_file name="INFILE"/></until>
   <sequences qt="2">
     <if statement_priority ="2">
        <condition>
          <expression>
           <var name="IN - RECORD.FAMILYDATA" data_priority ="1"/>
           <comparison_operator name="="/>
             <constant value="ZERO"/>
          </expression>
        </condition>
       <else>
          <sequences qt="2">
           < perform_internal statement_priority ="1">
               <condition>
                 <varying><var name="l" data_priority ="1"/></varying>
                <varying_from><constant value="1" type=" int "/></ varying_from >
                   <by><constant value="1" type=" int "/></by>
                 <until>
                   <expression>
                     <var name="I" data_priority ="1"/>
                     <comparison_operator name="&gt;"/>
                        <constant value="20" type=" int "/>
                    </expression>
                 </until>
               </condition>
               <sequences qt="2">
                <move statement_priority ="1">
                   <ref part="on" >< var name="IN - RECORD" data_priority ="3"/></ref>
                  <def>< var name="OUT-RECORD" data_priority ="2"/></def>
                </move>
                <write statement_priority ="1">
                    <file name="OUTFILE">
                      <record>< var name="OUT-RECORD" data_priority ="2"/></record>
                    </file>
                 </write>
              </sequences>

/ perform_internal >
          </sequences>
       </else>
     </if>
  </sequences>
```

```
SUBSTITUTE A PART OF VARIABLE "IN-RECORD" FOR VARIABLE "OUT-RECORD".
                                                                                                                                                                                                                                                                                   EXECUTE FOLLOWING REPEATEDLY TILL CONDITION EXPRESSION [VARIABLE ((20) IS SATISFIED. IN THIS CASE, GO ON INCREASING VARIABLE (FROM 1 BY 1 EVERY TIME.
READ RECORD FROM FILE "INFILE" TO VARIABLE "IN-RECORD" AND PERFORM REPEATEDLY TILL END OF FILE "INFILE". PERFORM FOLLOWING WHENEVER FILE IS READ.
                                                                                                                             IF CONDITION EXPRESSION (VARIABLE "IN-RECORD FAMILYDATA"=ZEROJ IS NOT SATISFIED, PERFORM FOLLOWING.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WRITE RECORD VARIABLE "OUT-RECORD" IN FILE "OUTFILE"
```

COMPUTER PROGR	AM OUTLINE	TIME AND DAT PREPARATION 13:45, 11/07/2	NC
NAME OF COMPUTER PROGRAM	TESTSAMPLE	FILE NAME	TESTSAMPLE.COB
COMMENT COLUMN			
	•		

<u>FILE II</u>	<u>NEORMATION</u>		
No.	FILE NAME	EXTERNAL NAME	TYPE
1.	INFILE	INFILE	COBOL FILE
2.	OUTFILE	OUTFILE	COBOL FILE

COMPUTER PROGRAM OUTLINE

READ RECORD FROM FILE "INFILE" TO VARIABLE "IN-RECORD" AND PERFORM REPEATEDLY TILL END OF FILE "INFILE". PERFORM FOLLOWING WHENEVER FILE IS READ.

「IF CONDITION EXPRESSION [VARIABLE "IN-RECORD.FAMILYDATA"=ZERO] IS NOT SATISFIED, PERFORM FOLLOWING.

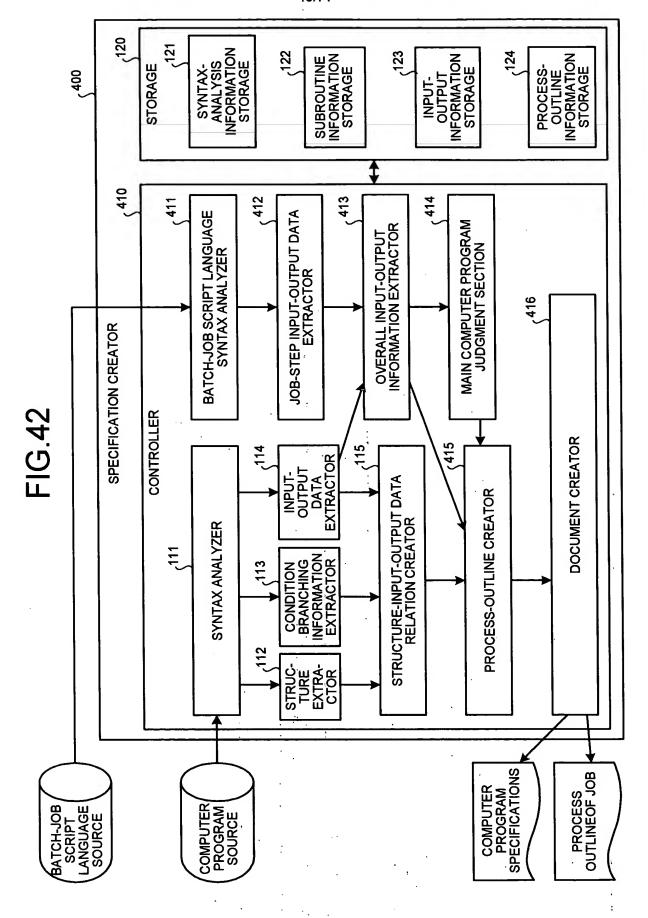
FEXECUTE FOLLOWING REPEATEDLY TILL CONDITION EXPRESSION [VARIABLE ((20] IS SATISFIED. IN THIS CASE, GO ON INCREASING VARIABLE (FROM 1 BY 1 EVERY TIME.

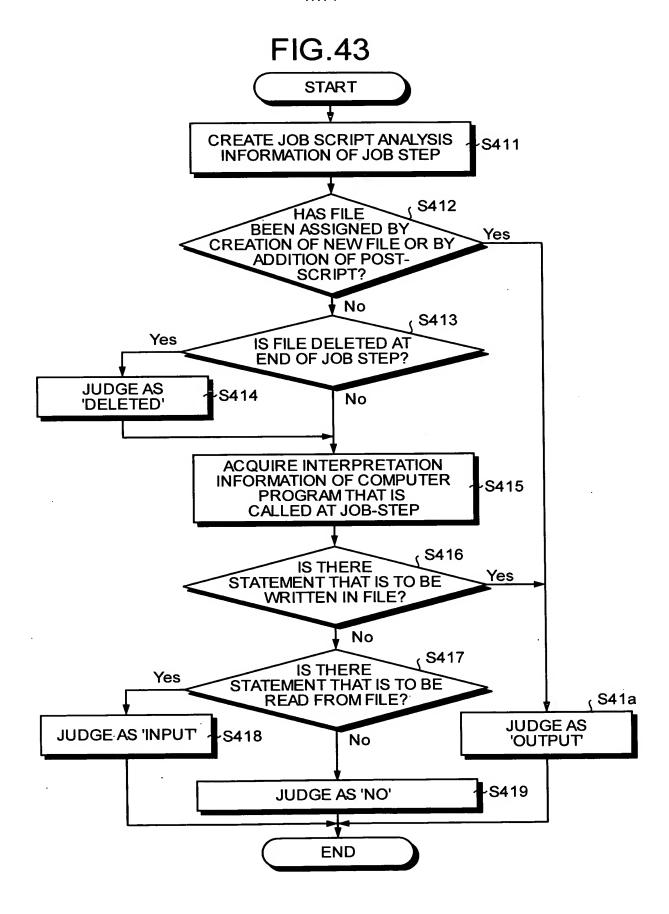
SUBSTITUTE A PART OF VARIABLE "IN-RECORD" FOR VARIABLE "OUT-RECORD".

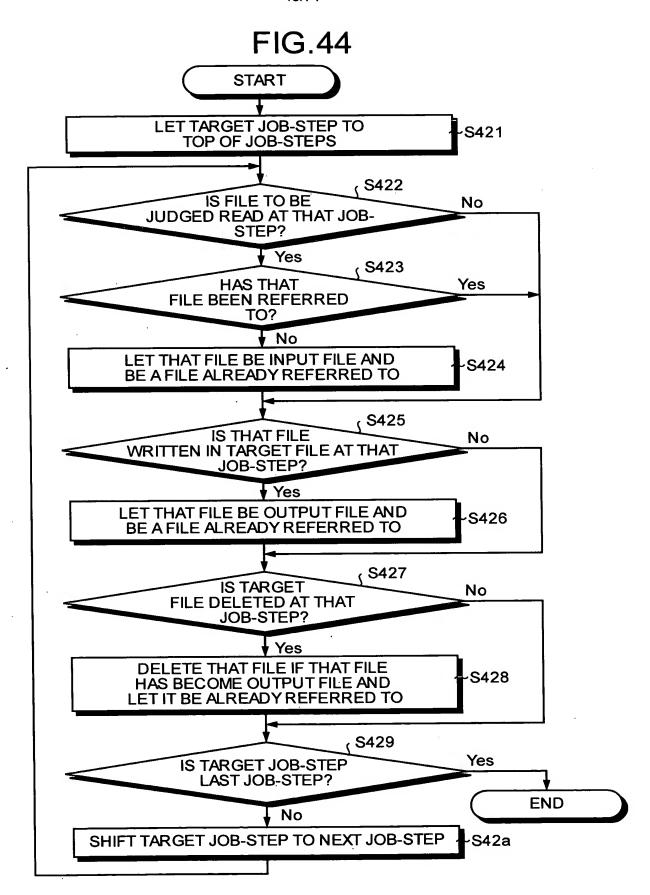
WRITE RECORD VARIABLE "OUT-RECORD" IN FILE "OUTILE".

. I

ı







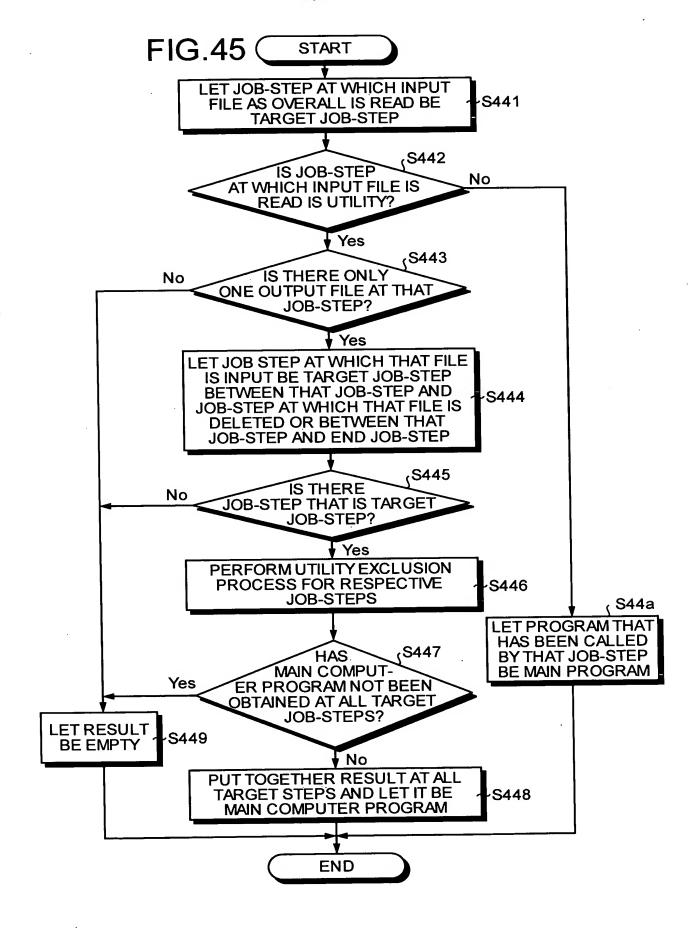


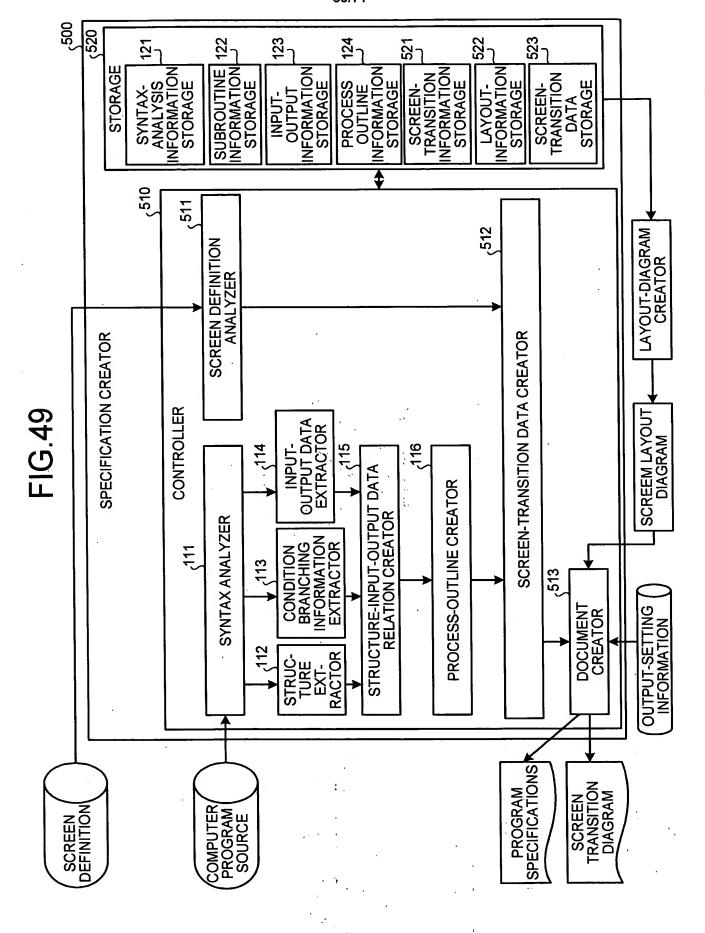
FIG 47

	E E				F	FILE	70		
STEP NAME	PROGRAM	DEPY01	101	WORK1	K 1	WORK2	1 42	DATA1	41
	CALLED	EXTERNAL MODE	MODE	EXTERNAL NAME	MODE	EXTERNAL MODE	MODE	EXTERNAL MODE	MODE
STEP1	PROGA	IN01	S	OT01	NP				
STEP2	SORT			SOTRIN	ОО	SORTOT NP	NP		
STEP3	PROGB					IN01	ao	OT01	NP
STEP4	ENDMSG			,					

[INPUT] DENPYO1

[OUTPUT] SYUKEI1

[MAIN PROGRAM]
PROG A (NEW BILL EXTRACTION),
PROG B (SUMMING PROCESS ON THAT DAY)

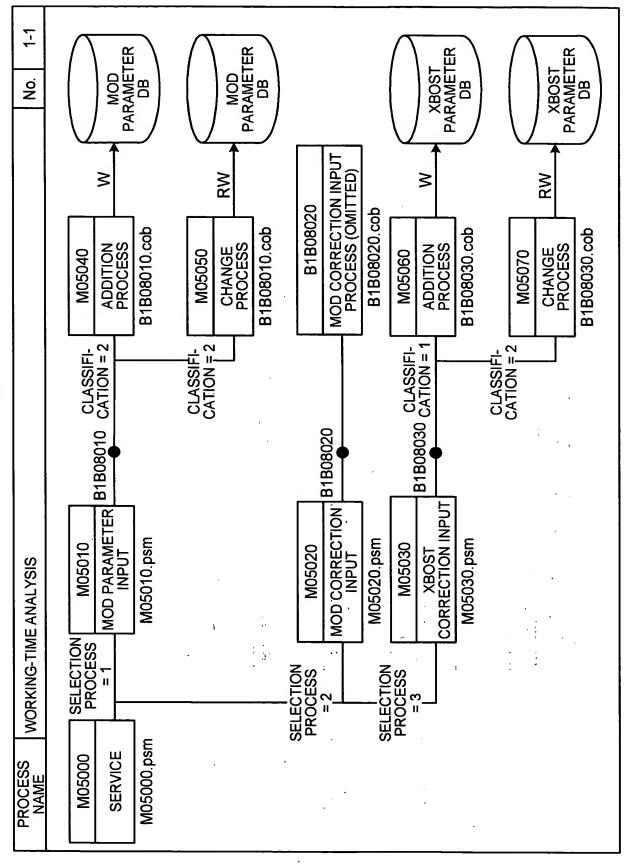


	INFORMATION	SCREEN-TRANSITION INFORMATION
DFGMA01 FID TYPE=DSP PGM=STD DEVICE FRAME PART CONTROL=RETRY '&' SCHAR TYPE=ATTR,FIELD=IN,ATTR=(IDH,ALP,OTL ,MDT,CUR)	# #	DXCGUA01 RECORD TYPE=INOUT,NAME=' MGA01 - MENU SCREEN RECORD' AID DATA USAGE=AID,NAME=' MGA01 - ATTENTION' H DATA USAGE=CTRL3,PIC=(X,1),NAME=' MGA01 - JUDGMENT' H DIST DATA=('Y',ELSE) PARM=('F.M05000',F.DFGMA01') END

TRANSITION- ORIGIN SCREEN	TRANSITION CONDITION	TRANSITION- TARGET SCREEN	CLASSIFICATION OF TRANSITION TARGET
M05000	SELECTION PROCESS = 1	M05010	SCREEN
M05000	SELECTION PROCESS = 2	PG0001	COMPUTER PROGRAM

```
layer="" layermax ="">
                                                                                                                                                                                                                                              filename="M05020.psm">
                                                                                source="M05010.psm">
 id="00000001" name="M05000" type="display" source="M05000.psm"
                                                                                <Description id="00000003" name="M05020" type="display"</pre>
                                                                                                                                                                                                                   <condition expression=" SERECTION PROCESS =2">
                                                                                                                                                                                                                                                                        <outline> XBOST PARAMETER </outline>
                                                    <condition expression="SERECTION PROCESS=1">
                                                                                                           <outline> MOD PARAMETER </outline>
                           SERVICE </outline>
                                                                                                                                                                /Description/>
                                                                                                                                                                                                                                                                                                                              </Description>
                                                                                                                                                                                           </condition>
                                                                                                                                                                                                                                                                                                                                                          </condition>
                                                                                                                                                                                                                                                                                                                                                                                    </ Descripiton >
                            <outline>
    < Descripiton
```

FIG.53A



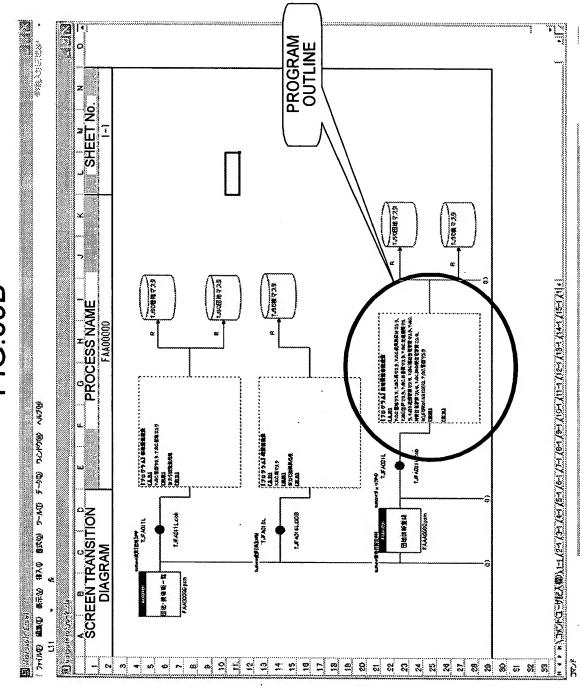
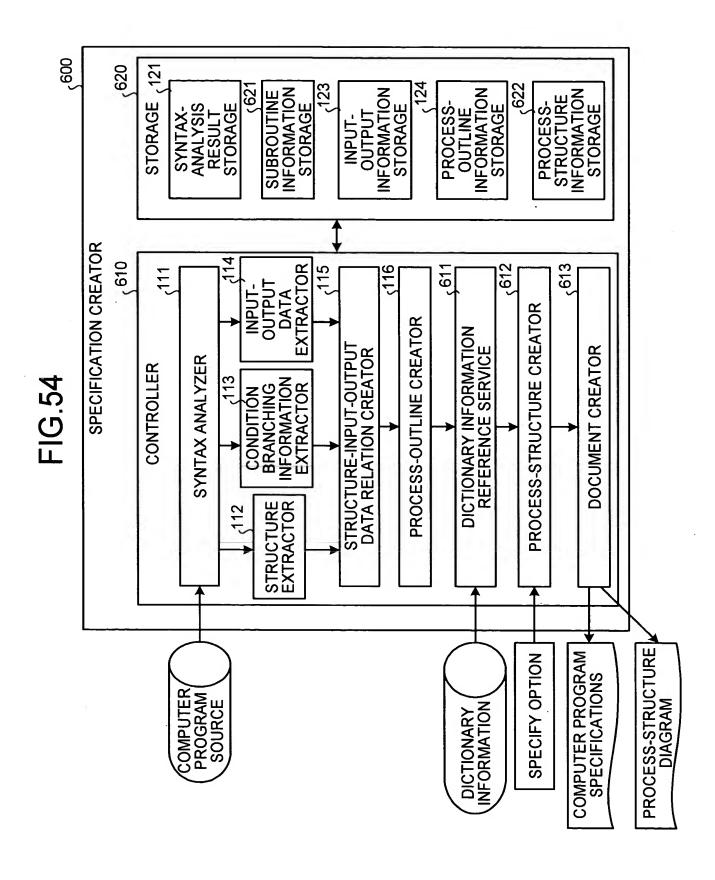
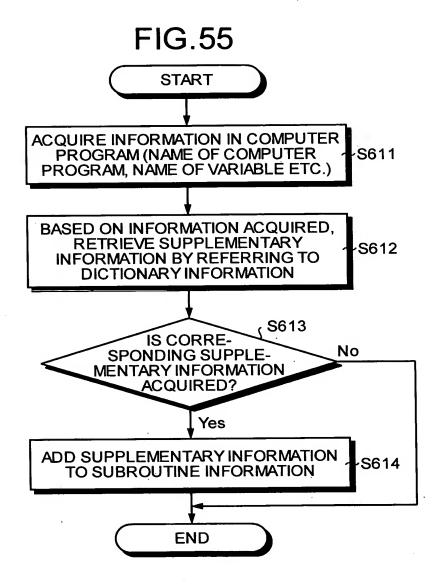


FIG.53B





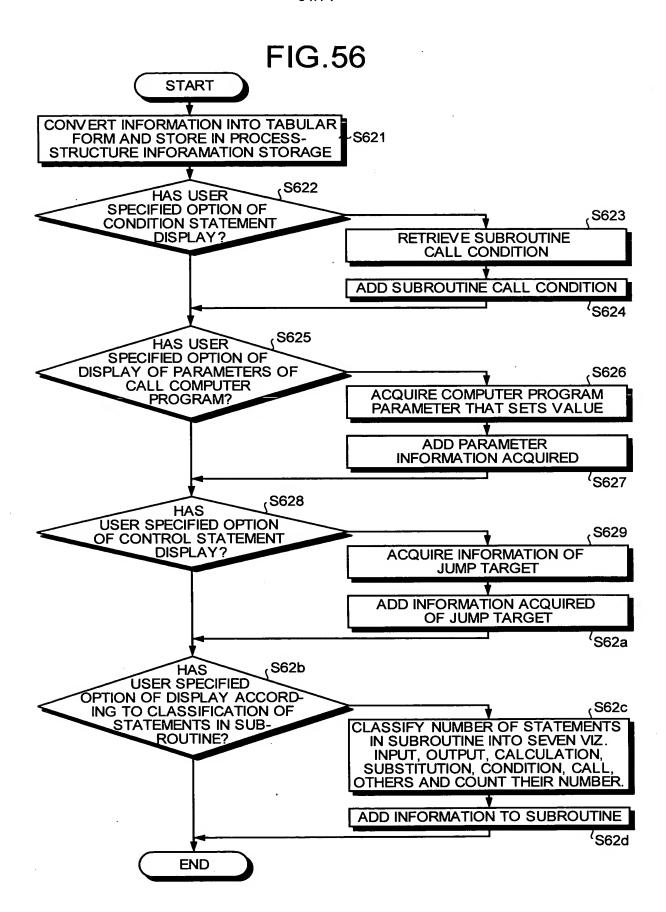


FIG.57A

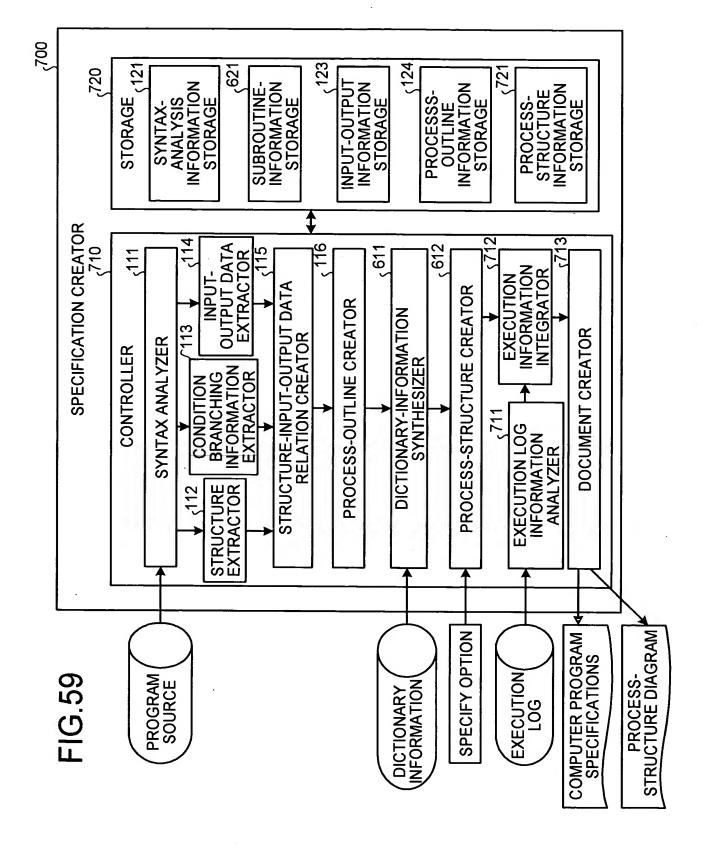
```
PROGRAM-ID PROGA
 PROCEDURE DIVISION.
   OPEN INPUT INFILE.
   DISPLAY "## PROGRAM START " UPON CONSOLE.
   PERFORM READ-SECT.
   IF END-FLAG = "END"
      DISPLAY "## NOT EVEN ONE RECORD CAN BE READ." UPON CONSOLE
      DISPLAY "## ERROR IS ENDED." UPON CONSOLE
      STOP RUN
   END-IF.
   PERFORM MAIN-SECT UNTIL END-FLAG = "END"
   CLOSE INFILE.
   DISPLAY "NUMBER OF OUTPUTS =[" OUT-COUNT "]" UPON CONSOLE.
   DISPLAY "ENDED NORMALLY." UPON CONSOLE.
   STOP RUN.
 READ-SECT SECTION.
    READ INFILE
                MOVE "END" TO END - FLAG
        NOT AT END ADD 1 TO IN - COUNT
    END-READ.
READ-SECT - END.
 MAIN-SECT SECTION.
    IF FAMILYDATA = ZERO
          ADD 1 TO SKIP - COUNT
   ELSE
          ADD 1 TO PROC-COUNT
       PERFORM VARYING I FROM 1 BY 1
                         UNTIL I > 20 OR F-MEMBER(I) = ZERO
            MOVE MEMBERCODE TO PARA1- MEMBERCODE
            CALL PROGW USING PARA1
               ADD 1
                         TO OUT - COUNT
       END-PERFORM
    END- IF.
   PERFORM READ - SECT.
MAIN-SECT- END.
   EXIT.
```

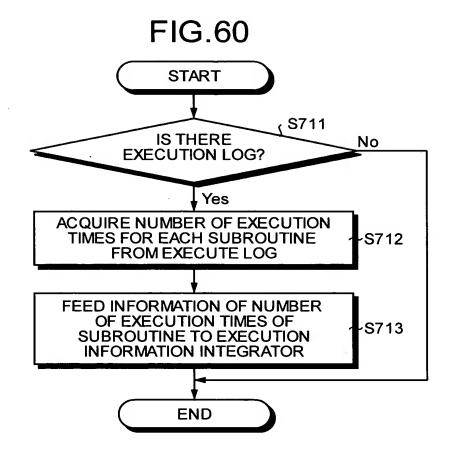
FIG.57B

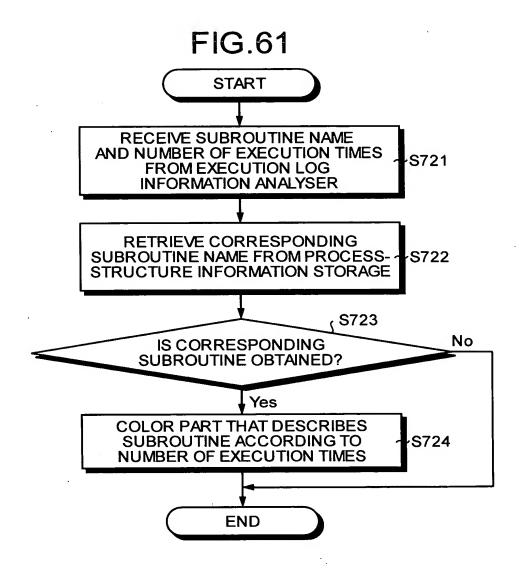
PROGRAM-ID PROGW ************************************
PROCEDURE DIVISION USING PARA1.
OPEN OUTPUT OUTFILE. MOVE PARA1 TO OUT-RECORD. WRITE OUT-RECORD CLOSE OUTFILE.
STOP RUN.
******* DEAD DOLITING ***********************

DOCUMENT PROCESS-STRUCTURE NAME DIAGRAM

WRITE FILE					OTF(OUTFILE)
READ FILE			INF(INFILE)		
SECTION (THIRD NESTING LEVEL)					CALL ""PROGW""
SECTION SECTION (SECOND NESTING LEVEL)			READ-SECT	MAIN-SECT	
SECTION (FIRST NESTING LEVEL)		first section (no name)			
NAME OF COMPUTER PROGRAM	PROGA	,			







DOCUMENT PROCESS-STRUCTURE NAME DIAGRAM

					8/7	71				
WRITE FILE		-					OTF(OUTFILE)			
READ FILE		INF(INFILE)								
SECTION (THIRD NESTING LEVEL)					<read-sect-end></read-sect-end>		CALL ""PROGW""	USING	CALL: 3. SUBSTITUTION: 1.2 [PARA1-MEMBERCODE=MEMBERCODE]	<main-sect-end></main-sect-end>
SECTION (SECOND NESTING LEVEL)		READ-SECT	NIMBER OF STATEMENTS		1, SUBSTITUTION: 1]	MAIN-SECT	EXECUTION CONDITION (CALL "PROGW"	NUMBER OF STATEMENTS	CALL: 3. SUBSTITUTION: 1	CONDITION: 1]
SECTION (FIRST NESTING LEVEL)	M. Manananina in manani di	first section (no name)	NUMBER OF STATEMENTS	ACCORDING TO	MINPLIT 1 OUTPLIT 5	CALL: 2, CONDITION: 1,	OTHERS: 9]			
NAME OF PROGRAM	PROGA			,				;		

NFORMATION TWICE

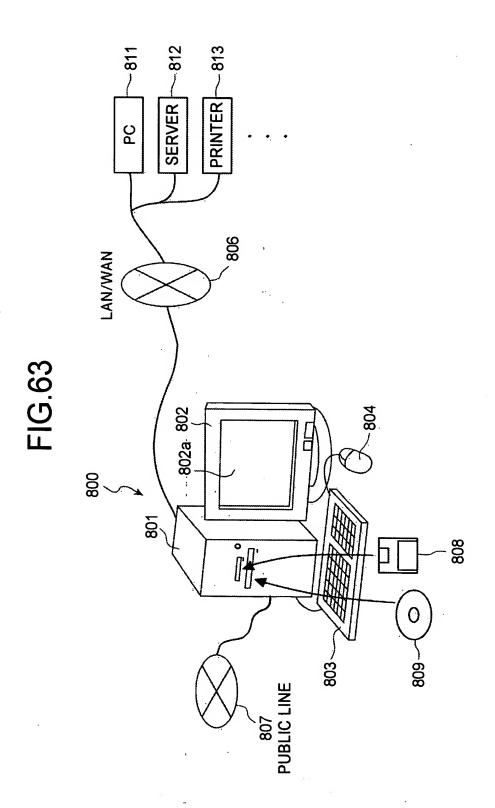


FIG.64

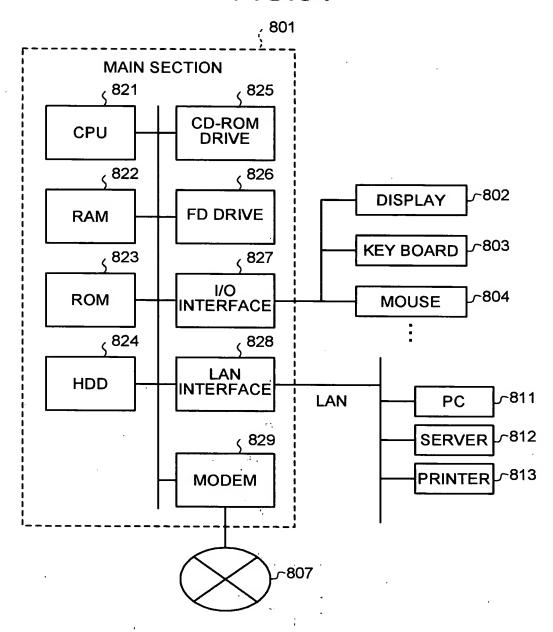


FIG.65

